

ABSTRACT

Phosphor for light sources, and associated light source

A phosphor for light sources, the emission from which lies in the short-wave optical spectral region, as a garnet structure $A_3B_5O_{12}$. It is activated with Ce, the second component B representing at least one of the elements Al and Ga, and the first component A containing terbium.

In particular, a garnet of structure $(Tb_{1-x-y}RE_xCe_y)_3(Al, Ga)_5O_{12}$, where

RE = Y, Gd, La and/or Lu;

$0 \leq x \leq 0.5 - y$;

$0 < y < 0.1$ is used.

Fig. 1